

Practitioner's Docket No.: 796_007

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Takao OHNISHI, Toshikazu HIROTA and Shigeki KIRA

Ser. No.: 10/023,455

Group Art Unit: Not Assigned

Filed: December 17, 2001

Examiner: Not Assigned

Confirmation No.: 2269

For: METHOD OF FORMING DETECTION SPOTS ON AN ANALYTE DETECTION CHIP

Box Missing Parts
Assistant Commissioner for Patents
Washington, DC 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to **Box Missing Parts, Assistant Commissioner for Patents, Washington D.C. 20231** on April 19, 2002.
Elizabeth A. VanAntwerp
Elizabeth A. VanAntwerp

PRELIMINARY AMENDMENT

Sir:

Prior to examination, Applicants wish to amend the subject application as follows:

In the Abstract:

Please replace the abstract with the following rewritten abstract:

ABSTRACT

To form a large number of detection spots on analyte detection chips, a plurality of injection modules 10a, 30a, and 40a are employed as a means for forming detection spots on slide glasses. Each injection module is equipped with injection units 10d adapted to jet spot-forming liquid containing a component for formation of the detection spots. The spot-forming liquid is jetted simultaneously from the injection units 10a, 30a, and 40a of the respective injection modules toward the surfaces of the plurality of regions on the single slide glasses 20, in order to simultaneously form detection spots on the surfaces of the plurality of slide glasses, or in the regions on the single slide glass. Thus, the efficiency in formation of detection spots is improved.

REMARKS

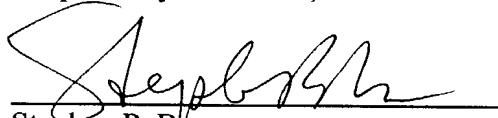
Prior to examination, Applicants respectfully request entry of this Amendment in which the abstract has been amended to contain 150 words or less.

Attached hereto as page 3 is a marked-up version of the changes made to the abstract by the current Amendment. The attached page is captioned "**VERSION WITH MARKINGS TO SHOW CHANGES MADE.**"

If the Examiner believes that contact with applicants' attorney would be advantageous toward the disposition of this case, he is herein requested to call applicants' attorney at the phone number noted below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,



Stephen P. Burr
Reg. No. 32,970

April 19, 2002

Date

SPB/eav

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Abstract:

ABSTRACT

~~When~~To form a large number of detection spots ~~are to be formed~~ on analyte detection chips, ~~a such as DNA chips or DNA microarrays, spot-forming liquid containing a~~ component for formation of detection spots is spotted simultaneously to the surfaces of detection spots is spotted simultaneously to the surfaces of a plurality of slide glasses or to a plurality of regions on a single slide glass to thereby improve the fabrication efficiency of detection chips and provide the detection chips inexpensively.

——A plurality of injection modules 10a, 30a, and 40a are employed as a means for forming detection spots on slide glasses. Each injection module is equipped with injection units 10d adapted to jet spot-forming liquid containing a component for formation of the detection spots. The spot-forming liquid is jetted simultaneously from the injection units 10a, 30a, and 40a of the respective injection modules toward the surfaces of the plurality of regions on the single slide glasses 20, in order to simultaneously form detection spots on the surfaces of the plurality of slide glasses, or in the regions on the single slide glass. Thus, the efficiency in formation of detection spots is improved.